PM 6665 Timer/counter PM 6669 Frequency counter

Service Manual

9499 465 00711 87 06 01 First edition





Industrial & Electro-acoustic Systems

PHILIPS

Important

As the instrument is an electrical apparatus, it may be operated only by trained personnel. Maintenance and repairs may also be carried out only by qualified personnel.

Please note

In correspondence concerning this instrument, please quote the type number and serial number as given on the type plate.



The counter is marked with this symbol when it is necessary for the user to refer to the manual.

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1. Safety instructions

GENERAL INFORMATION

WARNING:

These servicing instructions are for use by qualified personnel only. To reduce the risk of electrical shock, do not perform any servicing other than that specified in the Operating Manual unless you are fully qualified to do so.

This counter has been designed and tested in accordance with IEC Publication 348, Safety Requirements For Electronic Measuring Apparatus For Class 1 instruments, and has been supplied in a safe condition. This manual contains information and warnings that should be followed by the user and service technician to ensure safe operation and repair in order to keep the counter in a safe condition.

WARNING: The opening of covers or removal of parts, except those to which access can be gained by hand, is likely to expose live parts and accessible terminals which can be dangerous to life.

The counter must be disconnected from all voltage sources before it is opened.

Remember that capacitors inside the counter retain their charge even if the counter has been disconnected from all voltage sources.

GROUNDING

The counter is connected to ground via a sealed three-core power cable, which must be plugged into a socket outlet with a protective ground contact. No other method of grounding is permitted for this counter. When the counter is brought from a cold to a warm environment, condensation may cause a hazardous condition. Therefore, ensure that the grounding requirements are strictly met.

Power extension cables must always have a protective ground conductor.

WARNING: Any interruption of the protective ground conductor inside or outside the counter, or disconnection of the protective ground terminal, is likely to make the counter dangerous. DO NOT intentionally disrupt the protective grounding.

LINE VOLTAGE SETTING

Before connecting the counter to the line, ensure that it is set to the local line voltage. On delivery the counter is set to either 115 V or 220 V, as indicated on the line voltage selector on the rear panel. If the voltage setting is incorrect, set the line voltage selector in accordance with the local voltage before connecting the counter to the line.

SPARE PARTS

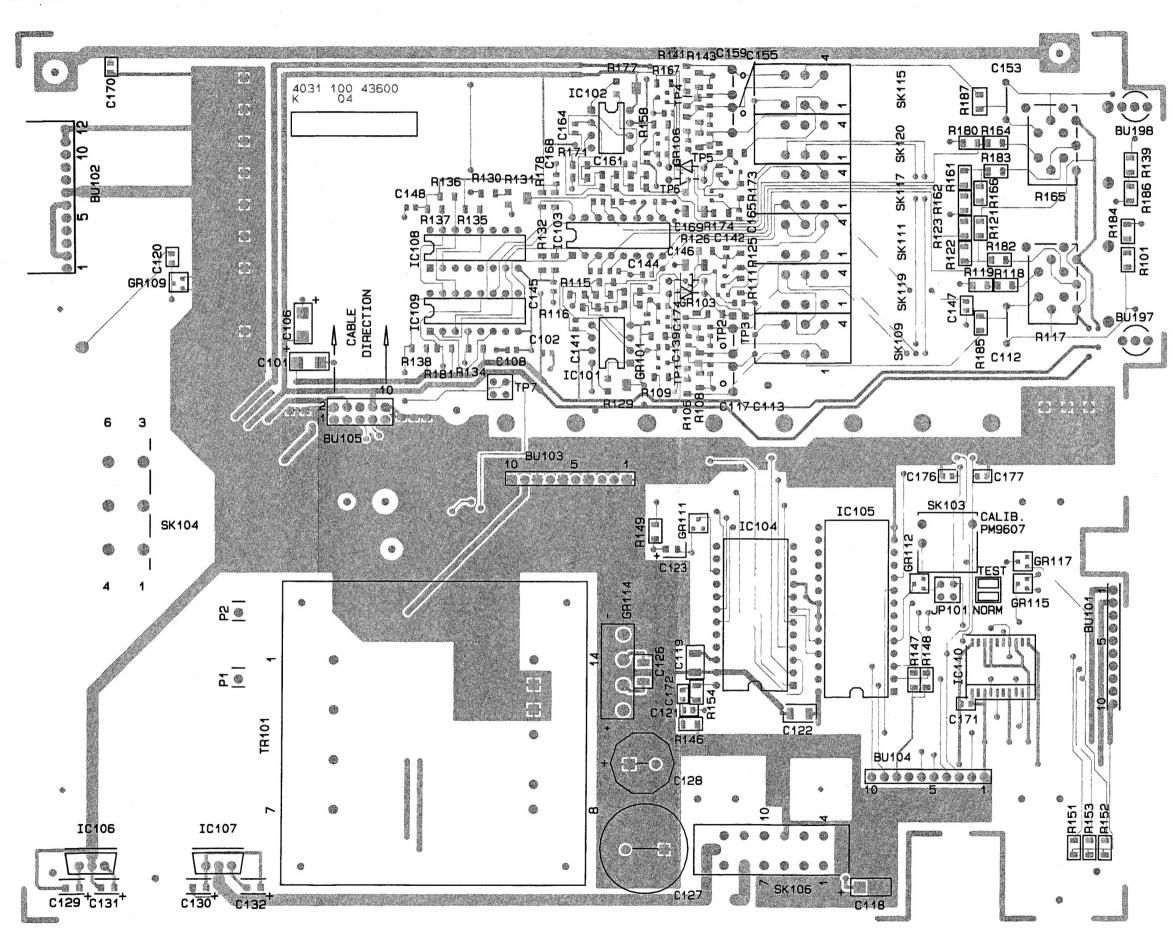
Components that are important for the safety ofthe instrument may only be renewed by components obtained from your local Philips organisation.

FUSES

The counter is protected by one fuse inside the transformer. This fuse will blow if the transformer is dangerously overheated. The fuse cannot be replaced separately.

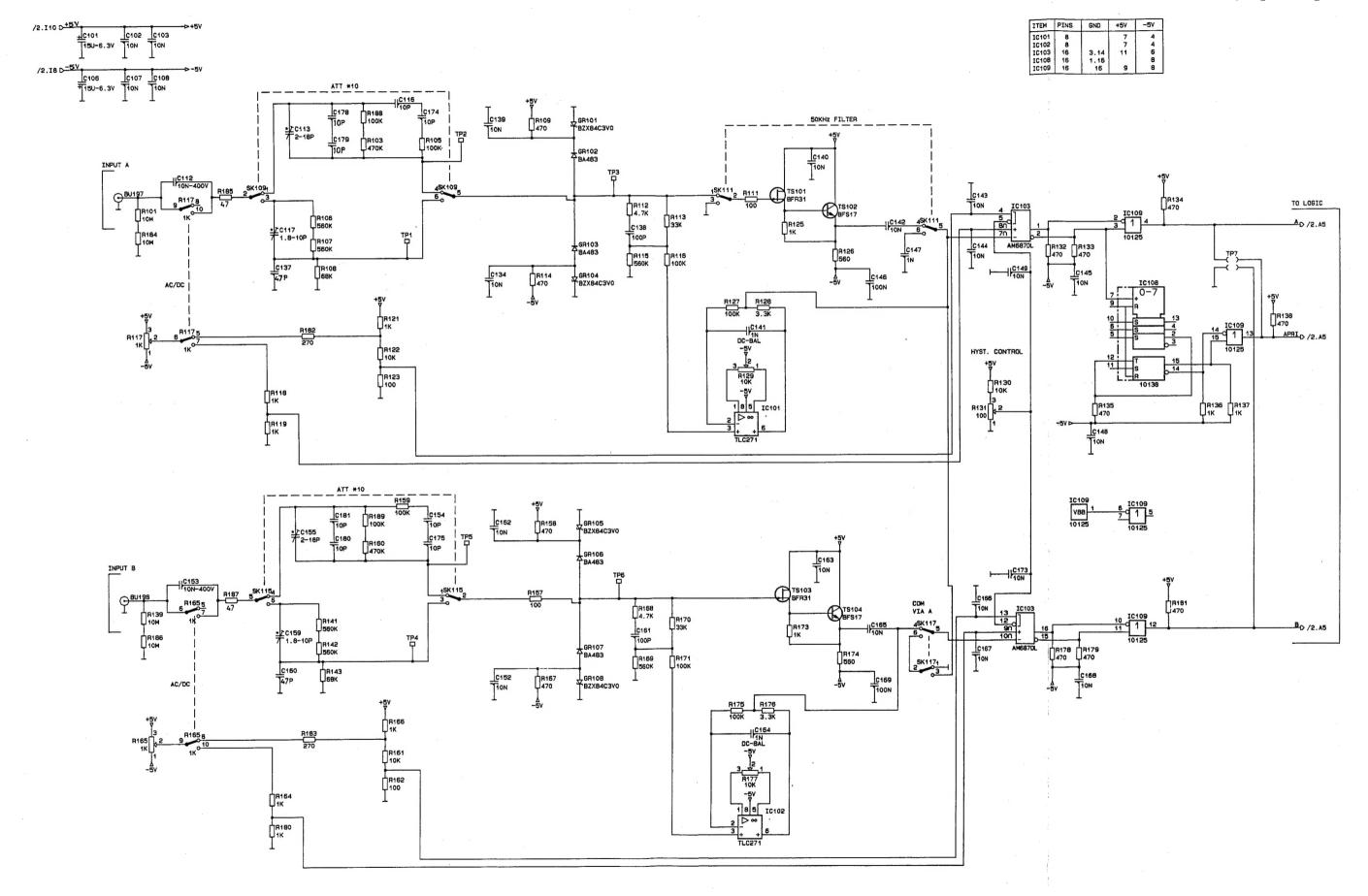
Always replace the complete transformer to ensure that the counter remains safe!

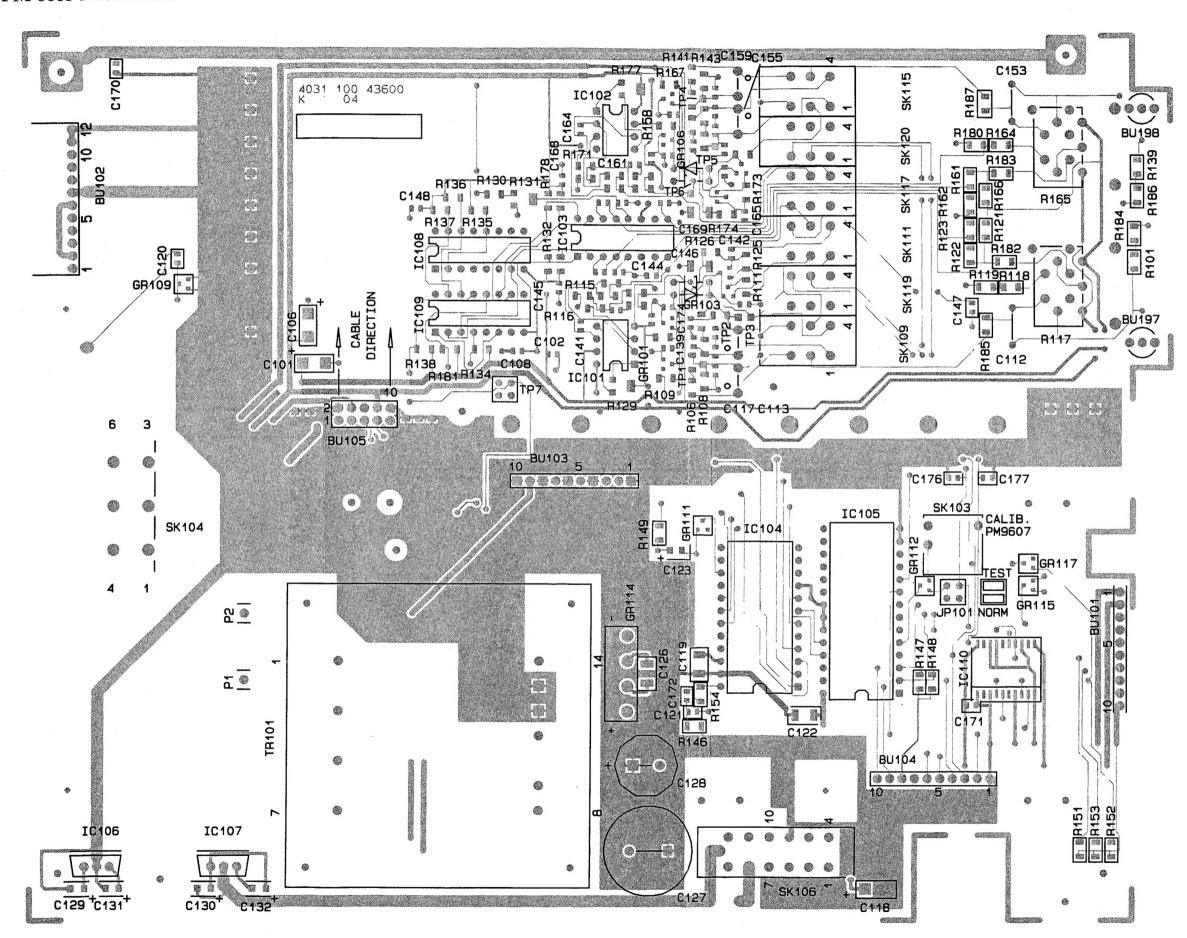
2. Drawings and diagrams



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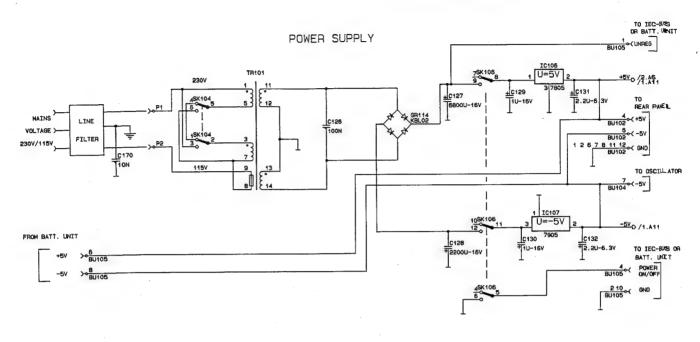
PM 6665 Basic board, input amplifier

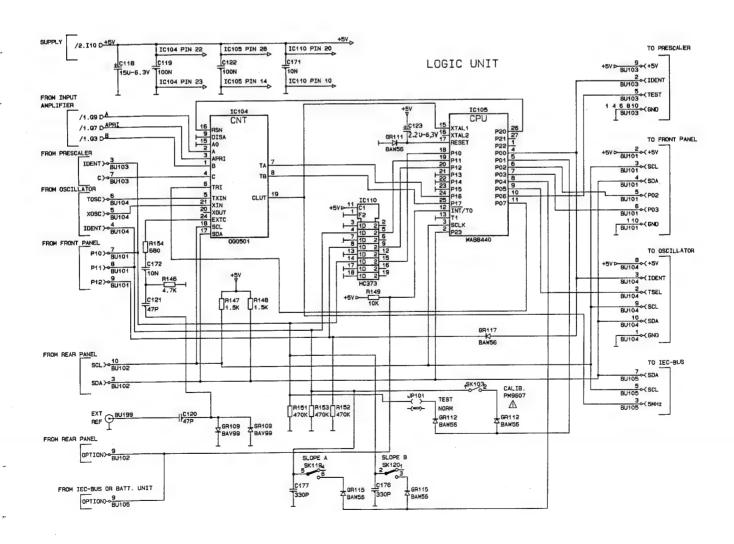




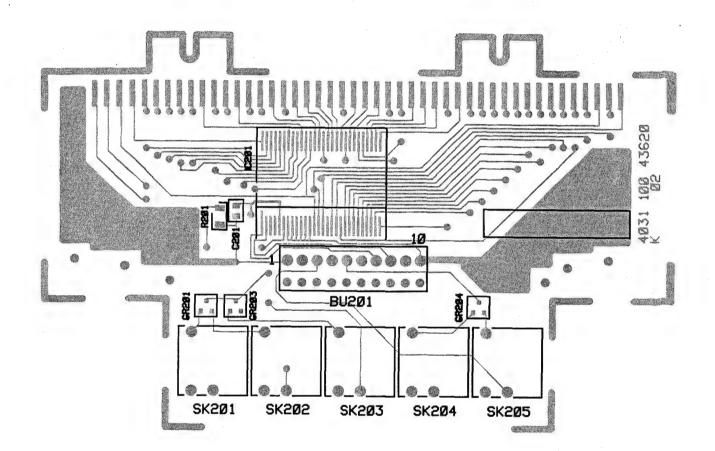
c

PM 6665 Basic board, power supply and logic unit

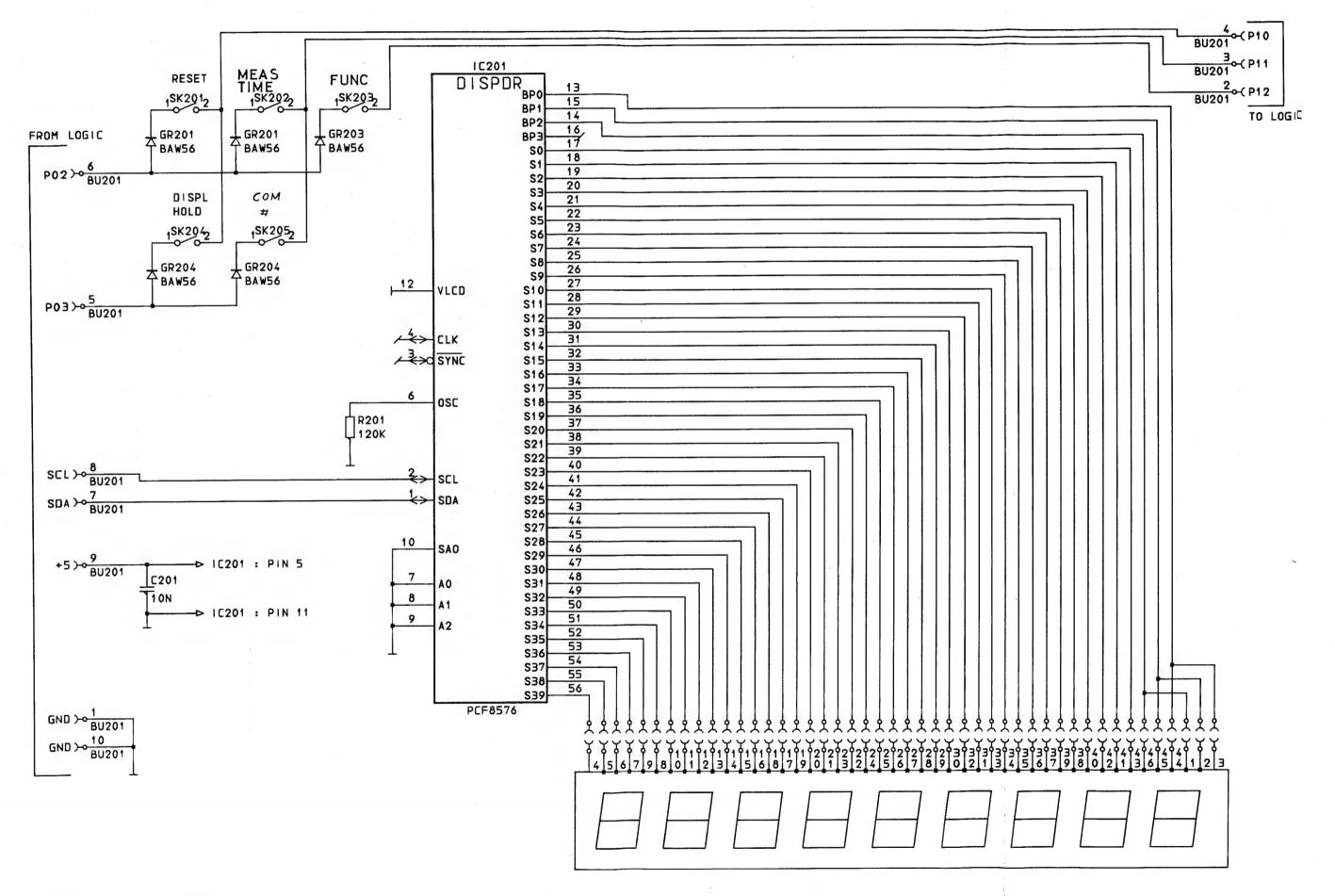




PM 6665 Front panel

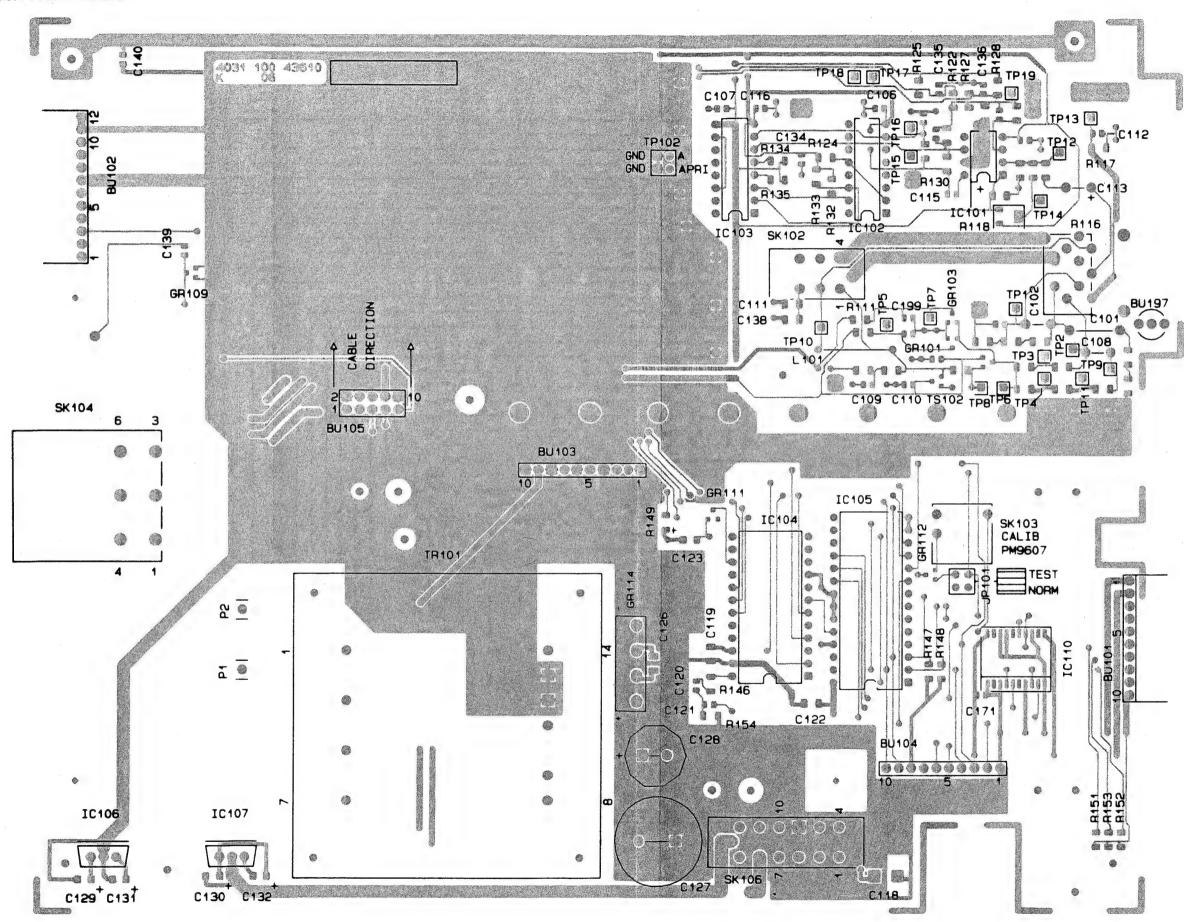


PM 6665 Front panel

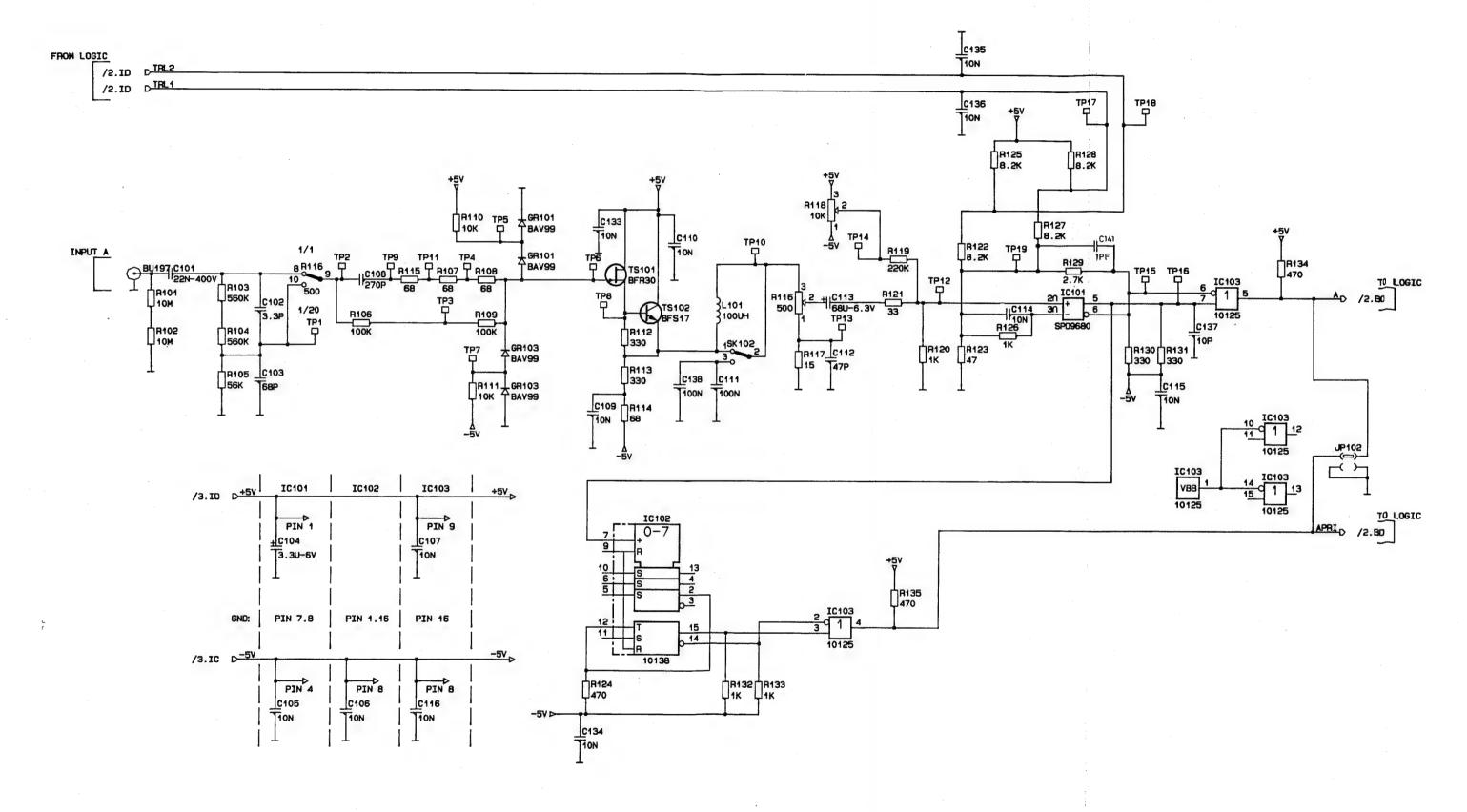


^{*} NO FUNCTION IN PM6665

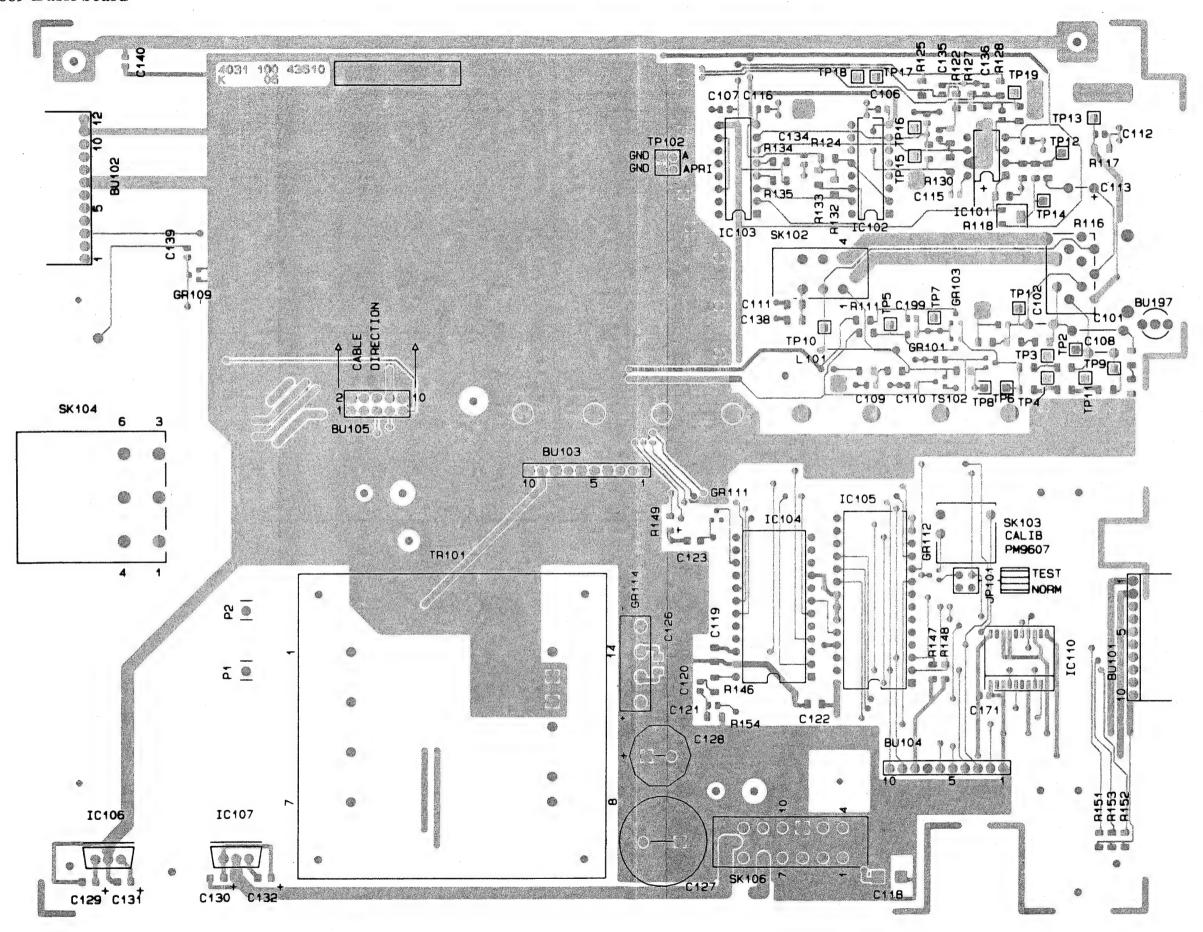
PM 6669 Basic board

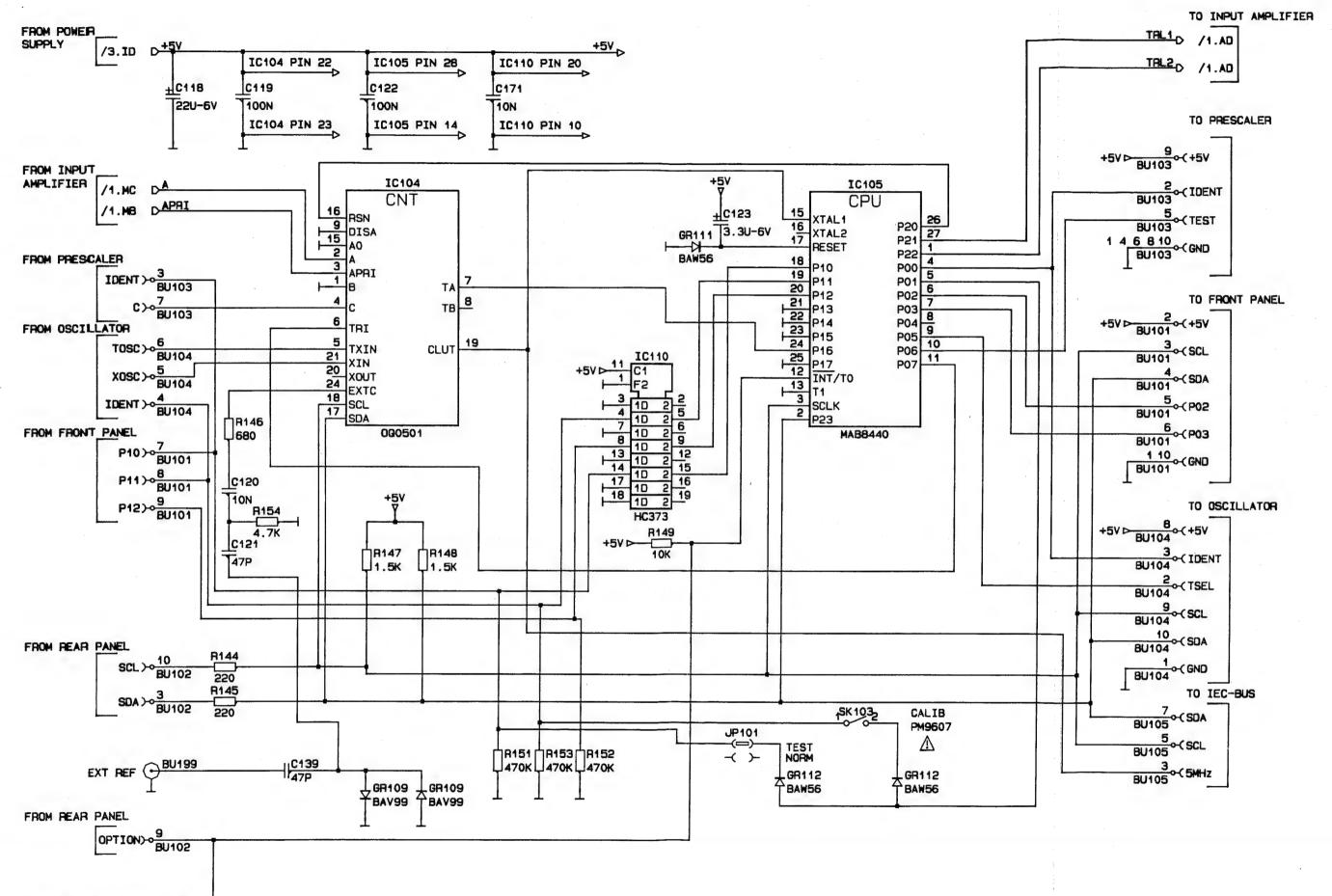


PM 6669 Basic board, input amplifir



PM 6669 Basic board

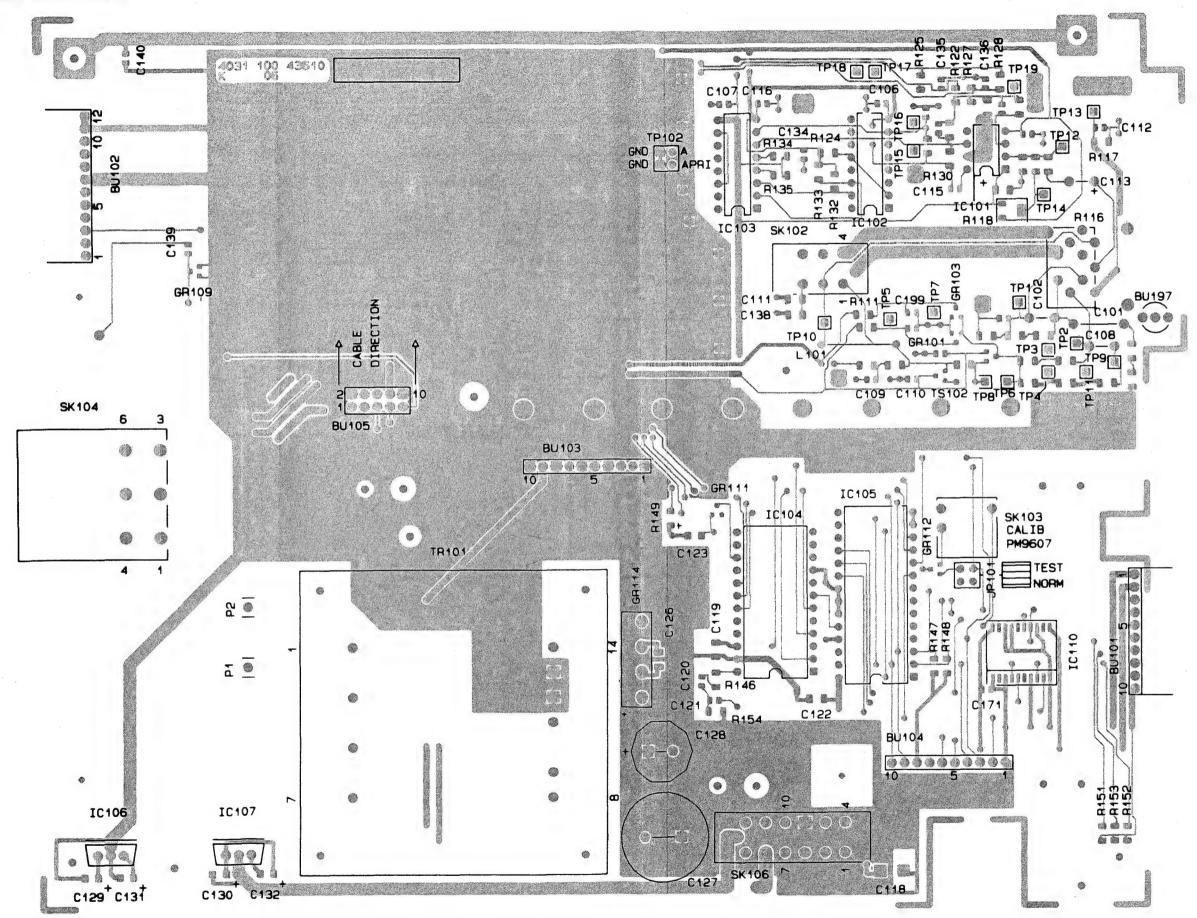




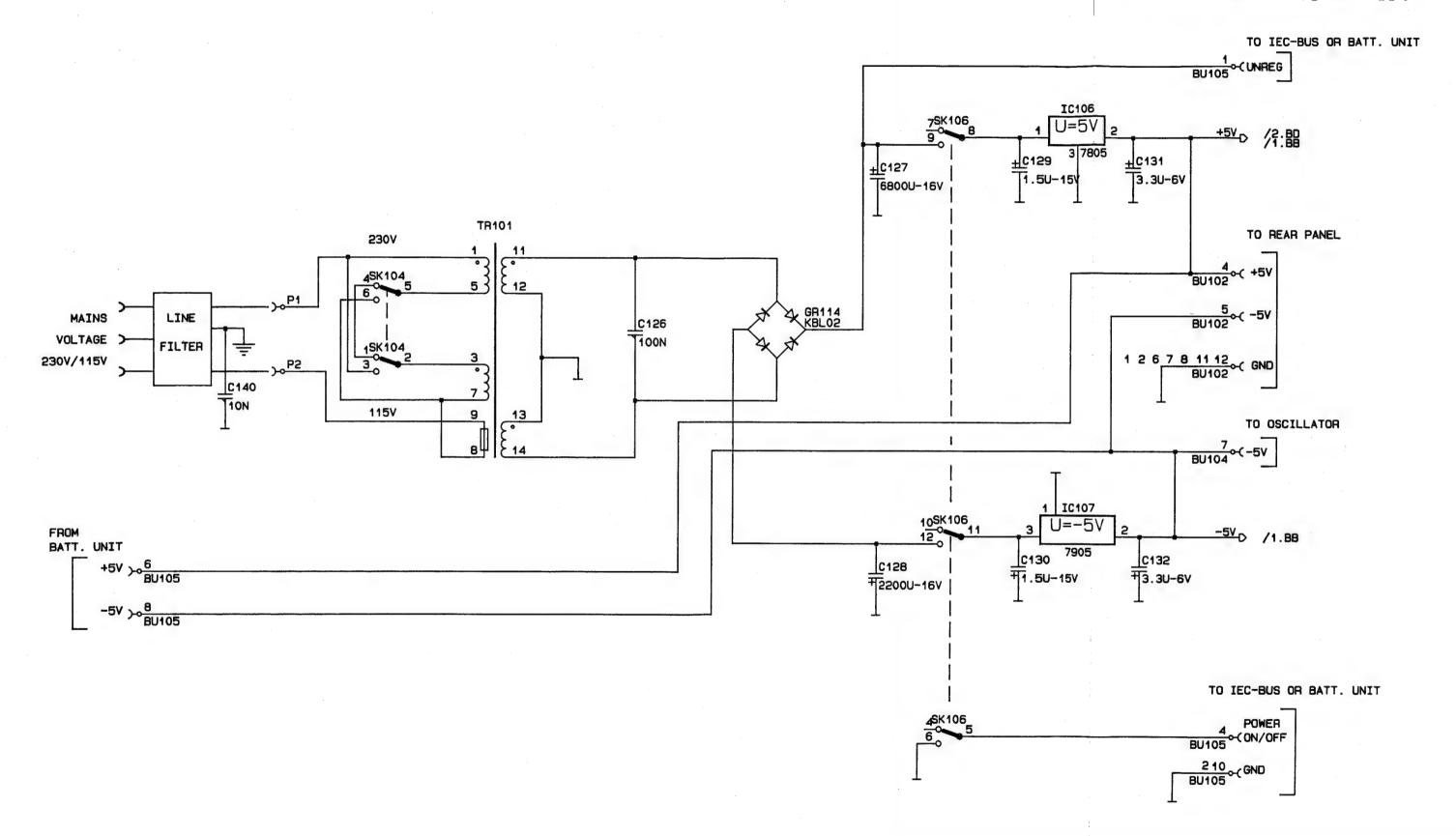
FROM IEC-BUS OR BATT, UNIT

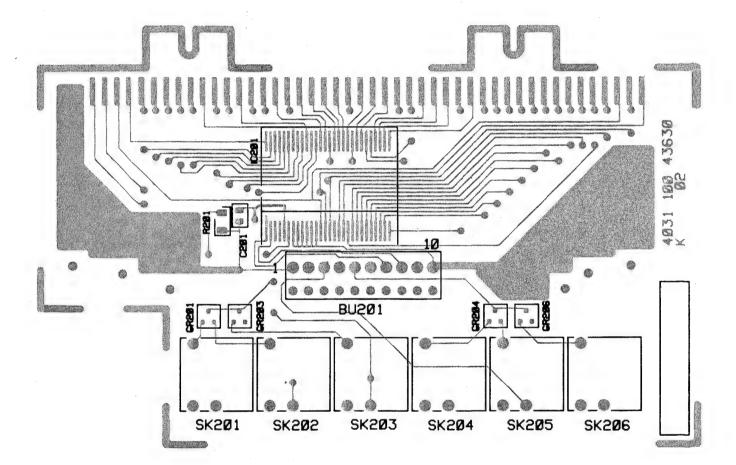
OPTION)-09 BU105

PM 6669 Basic board

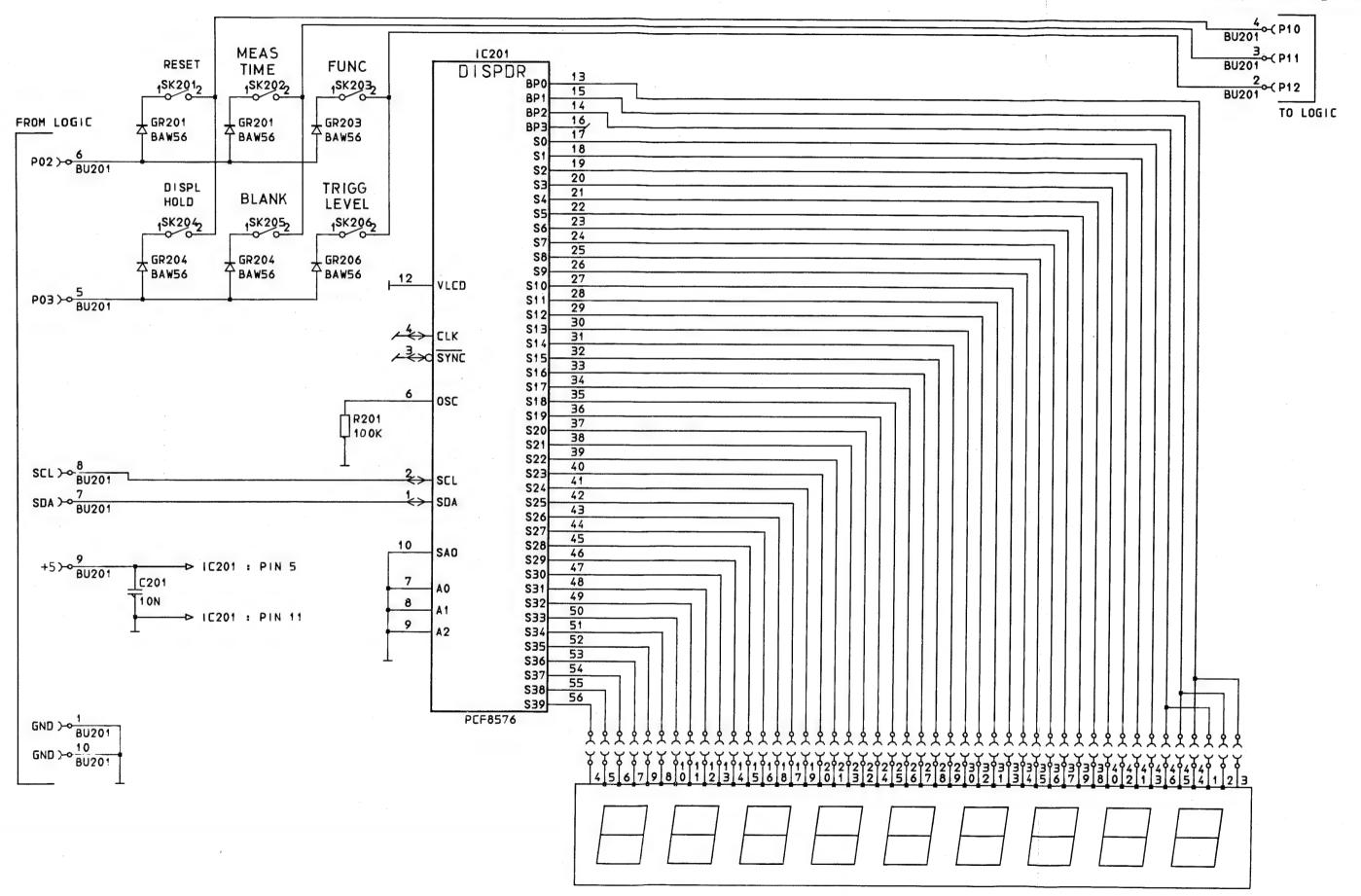


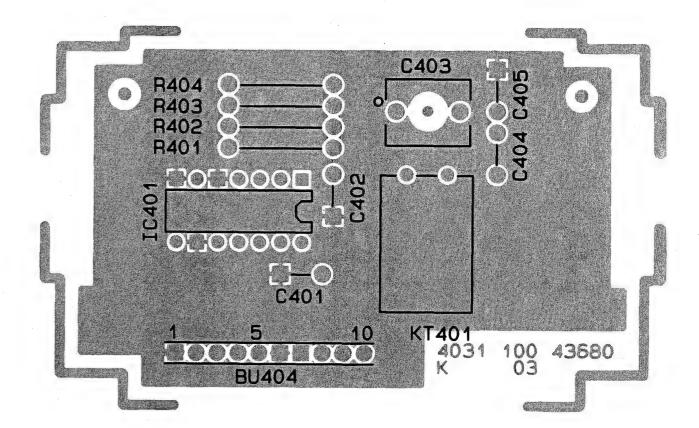
PM 6669 Basic board, power supply



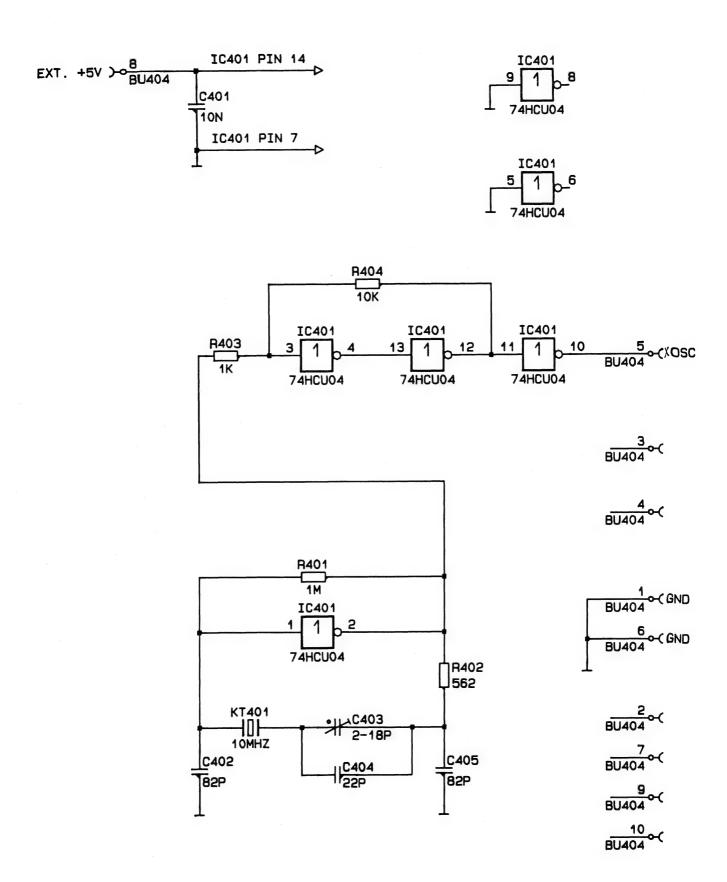


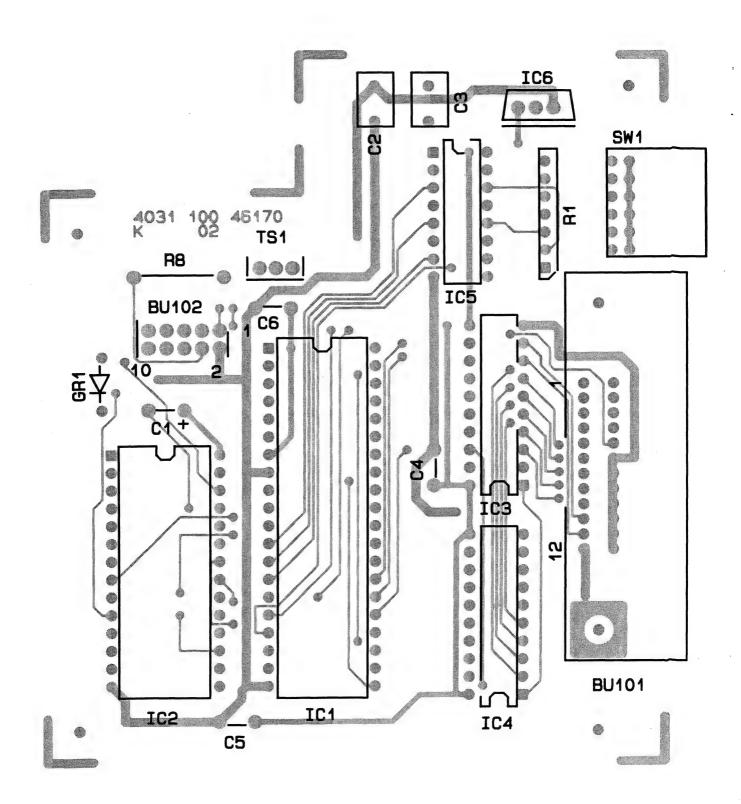
PM 6669 Front panel

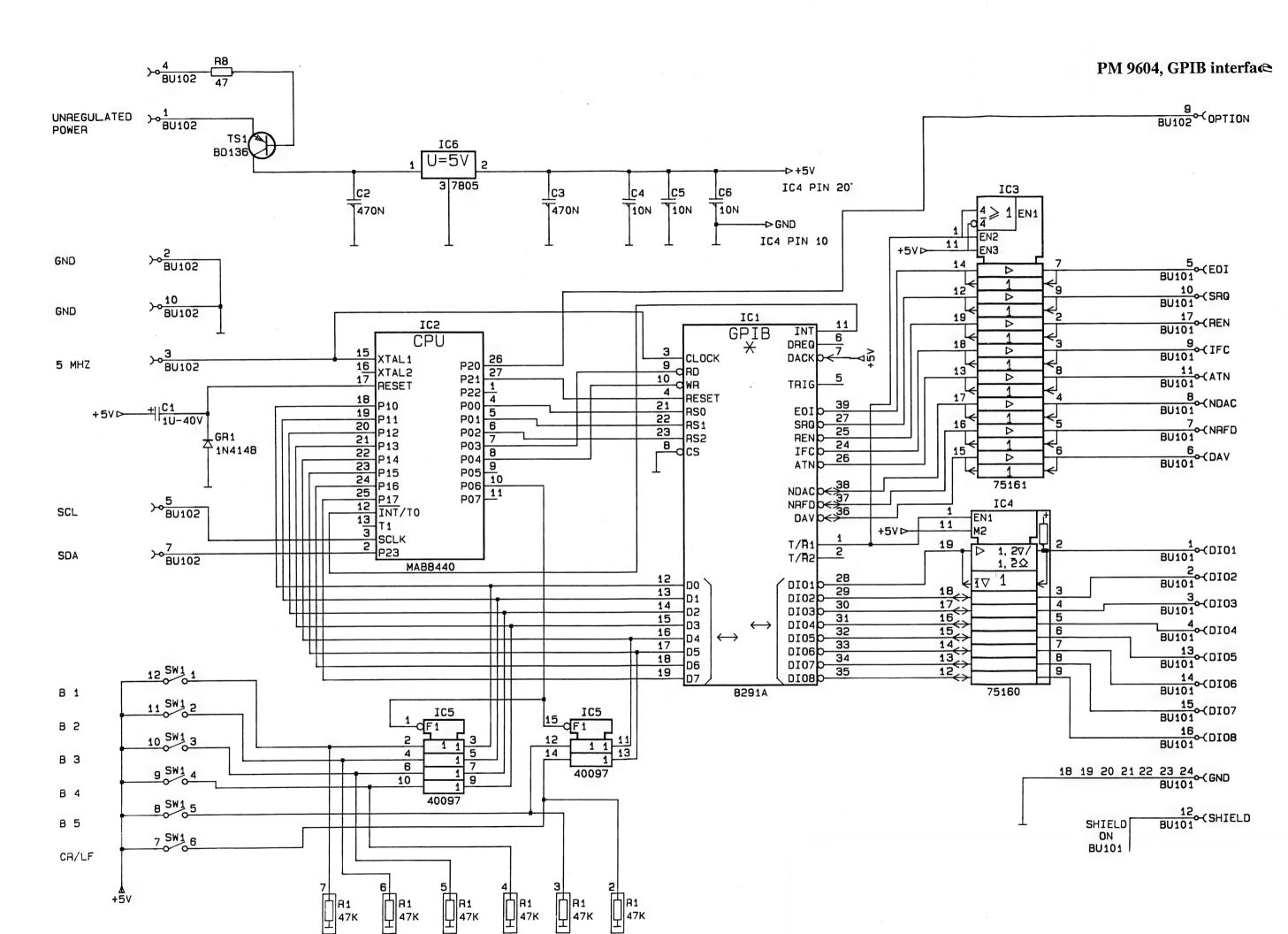




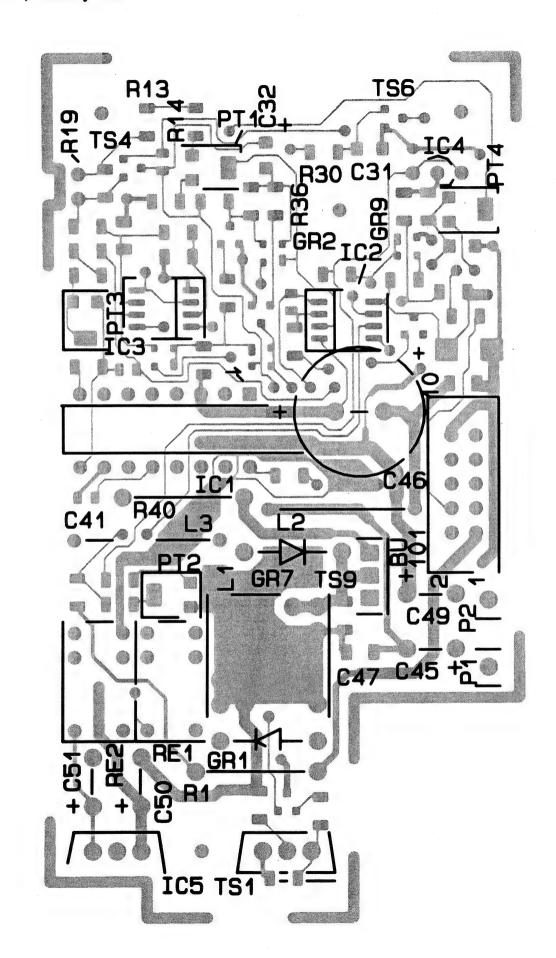
/.1. oscillator (uncompensated-crysta)



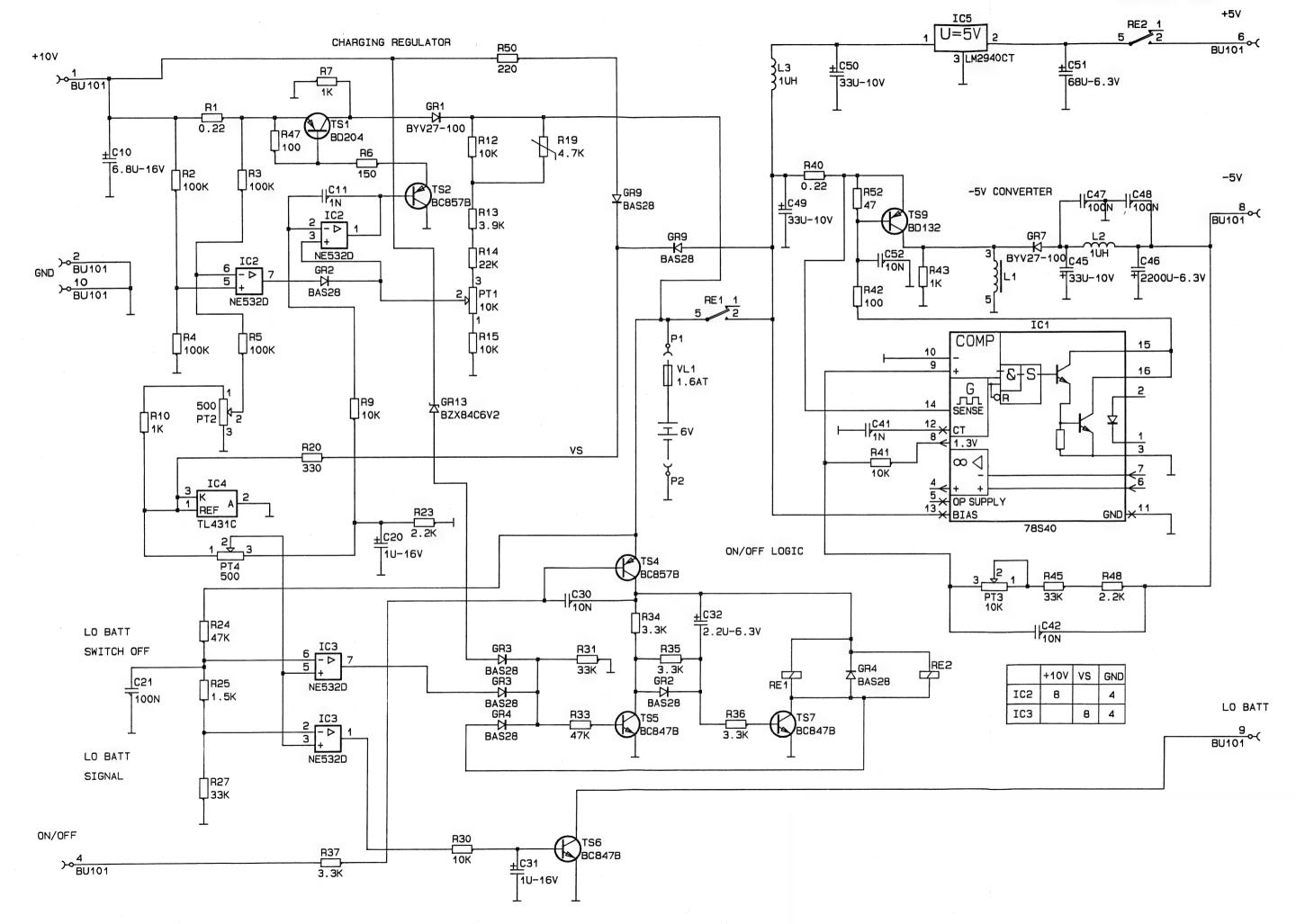




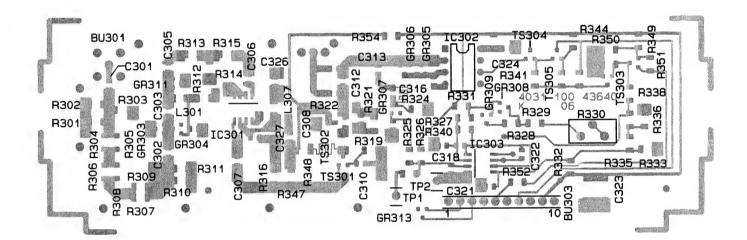
PM 9605, Battery unit



PM 9605, Battery unit

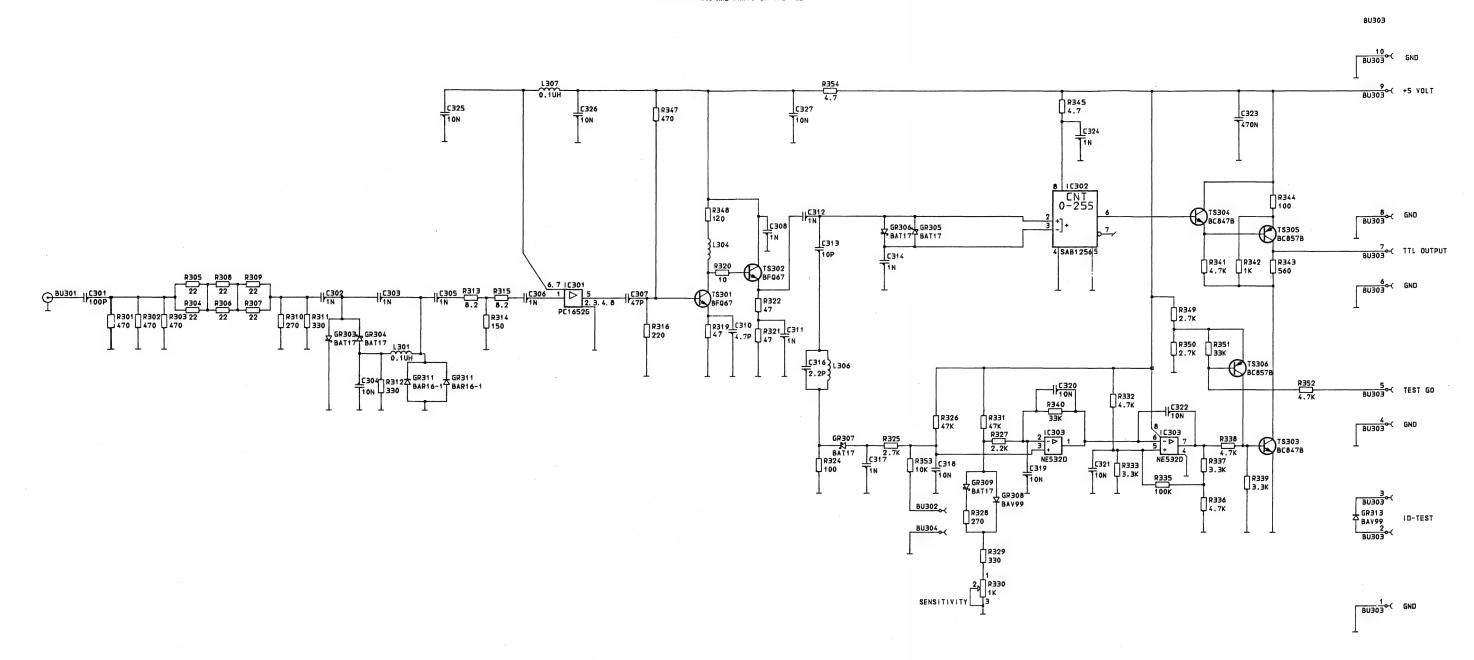


PM 9608, 1.1 GHz HF input



PM 9608, 1.1 GHz HF input

L304 AND L306 ARE PARTS OF THE PCB



3. Spare parts list

PM6665,-69 DATE: 87-05-12 SERVICECODE DESCRIPTION ARTICLE SPECIFICATION MECHANICAL PARTS 4822 526 10097 FXF TUBE 0.00 3B 4.3X2 L=7.2 5322 121 42352 MAINS FILTER 1.00 FN326-1/07 5322 130 90413 DISPLAY 0.00 PM6665-69 5322 267 10004 CONNECTOR 0.00 KC-79-35 5322 267 70208 ZEBRA STRIP 0.00 50.25P100.0L6.0H2.BW 5322 276 60257 PUSH SWITCH 6.00 CELL PM6665 5322 321 22314 CABLE ASSY 0.00 PM6665-69 5322 401 11102 TILTING SUPPOR 0.00 PM6665-69 5322 414 20034 PUSH BUTTON 0.00 SCHAD 6X10 L-BR/GN 30304 5322 414 30044 KNOB 10.00 MM BROWN SP=4 NO LINE 5322 414 70016 COVER 8.00 MM BROWN WH.LINE 5322 450 60633 WINDOW FOR LCD 29X101.5 0.00 5322 462 41115 REAR FOOT 0.00 PM6665-69 5322 462 41116 BOTTOM FOOT 0.00 PM6665-69 5322 462 41117 RUBBER FOOT 0.00 PM6665-69 18X10X8

0.00

0.00

PM6665-69

MRX 4X14 ST FZ

5322 498 10263 EXTENSION BAR

5322 500 10385 SCREW

SERVICECODE	DESCRIPTION	ART	ICLE SP	ECIFICATION	POS-NR
BASIC BOARD, U1					
5322 265 40379 5322 265 40634 5322 265 64028 5322 265 64028 5322 265 40197 5322 124 10652 5322 122 32453 5322 122 32453	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CAPACITOR CAPACITOR	5.00 12.00 10.00 10.00 10.00 22.00 10.00	POL POL POL POL UF NF	22-05-1059 3094-05F 76382-312 22-03-2101 4030-10A 22-03-2101 4030-10A F095 DDUBLE ROW 6V 195D226X0006F2 20% 50V X7R 0805	BU101 BU102 BU103 BU104 BU105 C101 C102
5322 124 10652 5322 122 32453 5322 122 32453 4822 121 41677 5322 125 50051	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 22.00 10.00 10.00 10.00 18.00	NF NF NF NF PF	20% 50V X7R 0805 6V 195D226X0006F2 20% 50V X7R 0805 20% 50V X7R 0805 10% 400V 3X10 3M 2.0-18PF 300V	C103 C106 C107 C108 C112 C113
5322 122 32448 5322 125 50049 5322 124 10652 5322 122 34082 5322 122 32452	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 10.00 22.00 100.00 47.00	PF PF UF NF PF	5% 50V NPO 0805 1,8-10PF 300V 6V 195D226X0006F2 20% 50V X7R 1808 5% 50V NPO 0805	C116 C117 C118 C119 C120
5322 122 32452 5322 122 34082 5322 124 10653 5322 122 34082 5322 124 41367	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	47.00 100.00 3.30 100.00 6800.00	PF NF UF NF UF	5% 50V NPO 0805 20% 50V X7R 1808 6V 195D335X0006B2 20% 50V X7R 1808 20% 16V ECEA1CU682	C121 C122 C123 C126 C127
5322 124 41366 5322 124 10654 5322 124 10654 5322 124 10653 5322 124 10653 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	2200.00 1.50 1.50 3.30 3.30	UF UF UF UF	20% 16V ECEA1CU222 15V 195D155X0015B2 15V 195D155X0015B2 6V 195D335X0006B2 6V 195D335X0006B2	C128 C129 C130 C131 C132
5322 122 32453 5322 122 32453 5322 122 32269 5322 122 32532 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 10.00 10.00 48.00 100.00	NF NF NF PF PF NF	20% 50V X7R 0805 20% 50V X7R 0805 20% 50V X7R 0805 5% 50V NPO 0805 5% 50V NPO 0805 20% 50V X7R 0805	C134 C135 C136 C137 C138 C139
	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 470.00 10.00 10.00	NF PF NF NF NF	20% 50V X7R 0805 5% 50V X7R 0805 5% 50V X7R 0805 20% 50V X7R 0805 20% 50V X7R 0805	C140 C141 C142 C143 C144
5322 122 32453 5322 122 34082 5322 122 34123 5322 122 32453 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 100.00 1.00 10.00	NF NF NF NF	20% 50V X7R 0805 20% 50V X7R 0805 20% 50V X7R 0805 20% 50V X7R 0805 20% 50V X7R 0805	C144 C145 C146 C147 C148 C149
5322 122 32453 4822 121 41677 5322 122 32448 5322 125 50051 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 10.00 10.00 18.00 10.00	NF NF PF PF NF	20% 50V X7R 0805 10% 400V 3X10 3M 5% 50V NPO 0805 2.0-18PF 300V 20% 50V X7R 0805	C152 C153 C154 C155 C157
5322 122 32453 5322 125 50049 5322 122 32269 5322 122 32532 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 10.00 68.00 100.00	NF PF PF PF NF	20% 50V X7R 0805 1,8-10PF 300V 5% 50V NPO 0805 5% 50V NPO 0805 20% 50V X7R 0805	C158 C159 C160 C161 C162
5322 122 32453 5322 122 32268 5322 122 32453 5322 122 32453	CAPACITOR CAPACITOR CAPACITOR CAPACITOR	10.00 470.00 10.00 10.00	NF PF NF NF	20% 50V X7R 0805 5% 50V NPO 0805 20% 50V X7R 0805 20% 50V X7R 0805	C163 C164 C165 C166

SERVICECODE	DESCRIPTION	ART1	CLE SPECI	FICATION	POS-NR
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0805	C167
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0805	C168
5322 122 34082	CAPACITOR	100.00	NF	20% 50V X7R 1808	C169
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0805	C170
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0805	C171
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0B05	C172
5322 122 32453	CAPACITOR	10.00	NF	20% 50V X7R 0805	C173
5322 122 32448	CAPACITOR	10.00	PF	5% 50V NPO 0805	C174
5322 122 32448	CAPACITOR	10.00	PF	5% 50V NPO 0805	C175
5322 130 32739	DIODE	0.35	W	BZX84/C3VO SOT23	GR101
4822 130 32656	DIODE	0.10	Α	BA483 35V SOD-58	GR102
4822 130 32656	DIODE	0.10	Α	BA483 35V SOD-58	GR103
5322 130 32739	DIODE	. 0.35	W	BZX84/C3VO SDT23	GR104
5322 130 32739	DIODE	0.35	W	BZX84/C3VO SOT23	GR105
4822 130 32656	DIODE	0.10	Α	BA483 35V SOD-58	GR106
4822 130 32656	DIODE	0.10	A	BA483 35V SOD-58	GR107
5322 130 32739	DIODE	0.35	W	BZX84/C3VO SOT23	GR108
5322 130 34337	DIODE	0.10	A	BAV99 SOT23	GR109
5322 130 30691	DIODE	0.25	Α	BAW56 70V S0T23	GR111
5322 130 30691	DIODE	0.25	Α	BAW56 70V SDT23	GR112
4822 130 32003	BRIDGE RECTIF	4.00	Α	KBL02 200V	GR114
5322 130 30691	DIODE	0.25	A	BAW56 70V SOT23	GR115
5322 130 30691	DIODE	0.25	Α	BAW56 70V S0T23	GR117
5322 209 83069	IC	0.00		TLC271CP DIL-8	IC101
5322 209 83069	IC	0.00		TLC271CP DIL-8	10102
5322 209 71552	IC	0.00		AM687ADL	IC103
5322 209 71559	LSI	0.00		000501	IC104
5322 255 40421	IC-SOCKET	24.00	POL	DIL	10104
5322 209 51236	IC-MICROP	0.00		PM6665-69 D2764	IC105
5322 209 51241	IC-MICROP	0.00		PM6665-69 D2764	IC105
5322 255 40234	IC-SOCKET	28.00	POL	DIL	IC105
5322 209 84454	IC	5.00	V	MC7805CT 1A T0-220	IC106
5322 130 44843	IC	-5.00	V	MC7905CT 1A TD-220	IC107
5322 209 86203	IC	0.00		MC10138P	IC108
5322 209 70313	IC	0.00		MC10125P	IC109
5322 209 71555	IC	0.00		PC74HC373T S0-20	IC110
5322 265 60251	CONNECTOR	4.00	POL	F095 DOUBLE ROW	JP101
5322 111 90094		10.00	MOHM	10% 0.25W RC-01 1206	R101
4822 111 90169		560.00	KOHM	5% 0.25W RC-01 1206	R103
4822 111 90169		560.00	KOHM	5% 0.25W RC-01 1206	R104 ·
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R105
4822 111 90169	RESISTOR	540.00	KOHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R106 R107
4822 111 90169		560.00 56.00	KOHM KOHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R107
4822 111 90573		470.00	OHM	5% 0.25W RC-01 1206	R109
5322 111 90109		150.00	OHM	5% 0.25W RC-01 1206	R110
5322 111 90098	RESISTOR RESISTOR	120.00	OHM	5% 0.25W RC-01 1206	R111
4822 111 90339 4822 111 90572		5.60	KOHM	5% 0.25W RC-01 1206	R112
4822 111 90169	RESISTOR	560.00	KOHM	5% 0.25W RC-01 1206	R113
5322 111 90109	RESISTOR	470.00	OHM	5% 0.25W RC-01 1206	R114
5322 111 90094	RESISTOR	10.00	MOHM	10% 0.25W RC-01 1206	R115
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R116
5322 101 20941	POTENTIOMETER	1.00	KOHM	PM6665	R117
5322 111 90092		1.00	KOHM	5% 0.25W RC-01 1206	R118
5322 111 70072	RESISTOR	1.00	KOHM	5% 0.25W RC-01 1206	R119
4822 111 90249		10.00	KDHM	5% 0.25W RC-01 1206	R121
4822 111 90214		100.00	KOHM	5% 0.25W RC-01 1206	R122
5322 111 90092		1.00	KOHM	5% 0.25W RC-01 1206	R123
5322 111 90096	RESISTOR	1.20	KOHM	5% 0.25W RC-01 1206	R125
4822 111 90248		2.20	KOHM	5% 0.25W RC-01 1206	R126

SERVICECODE	DESCRIPTION	ARTI	CLE SPEC	IFICATION	PDS-NR
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R127
4822 111 90157	RESISTOR	3.30	KOHM	5% 0.25W RC-01 1206	R128
5322 100 11143	POTENTIOMETER	10.00	KOHM	25% 0.1W 3304X-1-103	R129
5322 111 90267	RESISTOR	33.00	KOHM	5% 0.25W RC-01 1206	R130
5322 100 11144	POTENTIOMETER	500.00	OHM	25% O.1W OPEN CERM	R131
5322 111 90106	RESISTOR	330.00	OHM	5% 0.25W RC-01 1206	R132
5322 111 90106	RESISTOR	330.00	DHM	5% 0.25W RC-01 1206	R133
5322 111 90109	RESISTOR	470.00	DHM	5% 0.25W RC-01 1206	R134
5322 111 90109	RESISTOR	470.00	OHM	5% 0.25W RC-01 , 1206	R135
5322 111 90092	RESISTOR	1.00	KOHM	5% 0.25W RC-01 1206	R136
5322 111 90092	RESISTOR	1.00	KOHM	5% 0.25W RC-01 1206	R137
5322 111 90109	RESISTOR	470.00	DHM	5% 0.25W RC-01 1206	R138
5322 111 90094	RESISTOR	10.00	MOHM	10% 0.25W RC-01 1206	R139
4822 111 90169	RESISTOR	560.00	KOHM	5% 0.25W RC-01 1206	R141 R142
4822 111 90169	RESISTOR	560.00	KOHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R142
4822 111 90573	RESISTOR	56.00	KOHM	5% 0.25W RC-01 1206	R143
4822 111 90178	RESISTOR	220.00	OHM OHM	5% 0.25W RC-01 1206	R145
4822 111 90178	RESISTOR		KOHM	5% 0.25W RC-01 1206	R146
5322 111 90111	RESISTOR	4.70 1.50	KOHM	5% 0.25W RC-01 1206	R147
4822 111 90151	RESISTOR RESISTOR	1.50	KOHM	5% 0.25W RC-01 1206	R148
4822 111 90151 4822 111 90249	RESISTOR	10.00	KOHM	5% 0.25W RC-01 1206	R149
4822 111 90249 4822 111 90161	RESISTOR	470.00	KOHM	5% 0.25W RC-01 1206	R151
4822 111 90161	RESISTOR	470.00	KOHM	5% 0.25W RC-01 1206	R152
4822 111 90161	RESISTOR	470.00	KOHM	5% 0.25W RC-01 1206	R153
4822 111 90162	RESISTOR	680.00	DHM	5% 0.25W RC-01 1206	R154
4822 111 90169	RESISTOR	540.00	KOHM	5% 0.25W RC-01 1206	R155
5322 111 90098	RESISTOR	150.00	MHO	5% 0.25W RC-01 1206	R156
4822 111 90339	RESISTOR	120.00	OHM	5% 0.25W RC-01 1206	R157
5322 111 90109	RESISTOR	470.00	OHM	5% 0.25W RC-01 1206	R158
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R159
4822 111 90169	RESISTOR	560.00	KOHM	5% 0.25W RC-01 1206	R160
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R161
5322 111 90092	RESISTOR	1.00	KOHM	5% 0.25W RC-01 1206	R162
5322 111 90092	RESISTOR	1.00	KOHM	5% 0.25W RC-01 1206	R164
5322 101 20941	POTENTIOMETER	1.00	KOHM	PM6665	R165
4822 111 90249	RESISTOR	10.00	KOHM	5% 0.25W RC-01 1206	
5322 111 90109	RESISTOR	470.00	OHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R167 R168
4822 111 90572	RESISTOR	5.60	KOHM	5% 0.25W RC-01 1206	R169
5322 111 90094	RESISTOR	10.00	MOHM KOHM	5% 0.25W RC-01 1206	R170
4822 111 90169	RESISTOR	560.00 100.00	KOHM	5% 0.25W RC-01 1206	R171
4822 111 90214	RESISTOR RESISTOR	1.20	KOHM	5% 0.25W RC-01 1206	R173
5322 111 90096 4822 111 90248	RESISTOR	2.20	KOHM	5% 0.25W RC-01 1206	R174
4822 111 70248	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R175
4822 111 90157	RESISTOR	3.30	KOHM	5% 0.25W RC-01 1206	R176
5322 100 11143		10.00	KOHM	25% 0.1W 3304X-1-103	R177
5322 111 90106	RESISTOR	330.00	DHM	5% 0.25W RC-01 1206	R178
5322 111 90106	RESISTOR	330.00	OHM	5% 0.25W RC-01 1206	R179
5322 111 90092		1.00	KOHM	5% 0.25W RC-01 1206	R180
5322 111 90109		470.00	OHM	5% 0.25W RC-01 1206	R181
4822 276 11076	KEY SWITCH	1.00	POL	DW-5112 TYPE VKS	SK103
5322 414 20031	PUSH BUTTON	0.00	VKS	6.5X6.5 L-BR 30304	SK103
5322 277 21124	VOLTAGE SWITCH	0.00		V202-12-MA-08-QA	SK104
5322 276 12192	PUSH SWITCH	1.00	CELL	PM6665~69	SK106
5322 146 21229		0.00		PM6665-69	TR101
5322 130 44787		0.00		BFR31 .01A 25V SOT23	TS101
5322 130 40781	TRANSISTOR	0.00		BFS17 .05A 15V S0T23	TS102
5322 130 44787		0.00		BFR31 .01A 25V S0T23 BFS17 .05A 15V S0T23	TS103 TS104
5322 130 40781	TRANSISTOR	0.00		DE917 :00H 190 20162	10104

SERVICECODE	DESCRIPTION	ARTI	CLE SPEC	IFICATION	POS-NR
FRONT PANEL, UZ					
5322 267 50336 5322 122 32453 5322 130 30691 5322 130 30691 5322 130 30691 5322 209 11129 4822 111 90214 4822 276 11076 5322 414 20031 4822 276 11076 5322 414 20031 4822 276 11076 5322 414 60146 4822 276 11076	CONNECTOR CAPACITOR DIODE DIODE DIODE IC RESISTOR KEY SWITCH PUSH BUTTON KEY SWITCH	10.00 10.00 0.25 0.25 0.25 0.00 100.00 1.00 0.00 1.00 0.00	POL NF A A A KOHM POL VKS POL VKS POL VKS	22-14-2104 4455-BC 20% 50V X7R 0805 BAW56 70V SDT23 BAW56 70V SDT23 BAW56 70V SDT23 PCF8576T VS056 5% 0.25W RC-01 1206 DW-5112 TYPE VKS 6.5X6.5 L-BR 30304 DW-5112 TYPE VKS 6.5X6.5 L-BR 30304 DW-5112 TYPE VKS 6.5X6.5 L-BR 30304 DW-5112 TYPE VKS 6.5X6.5 BEIGE 40317 DW-5112 TYPE VKS	BU201 C201 GR201 GR203 GR204 IC201 R201 SK201 SK201 SK202 SK202 SK203 SK203 SK203
5322 414 20031 4822 276 11076	PUSH BUTTON KEY SWITCH	1.00	VKS POL	6.5X6.5 L-BR 30304 DW-5112 TYPE VKS	SK204 SK205
5322 414 20031	PUSH BUTTON	0.00	VKS	6.5X6.5 L-BR 30304	SK205

SERVICECODE	DESCRIPTION	ARTICLE	SPECIFICATION	POS-NR
BASIC BOARD, UI				
5000 D/E 40000	CONNECTOR	5.00 POL	22-05-1059 3094-05F	BU101
5322 265 40379		12.00 PDL	76382-312	BU102
5322 265 40634	CONNECTOR		22-03-2101 4030-10A	BU103
5322 265 64028	CONNECTOR	10.00 PDL		
5322 265 64028	CONNECTOR	10.00 POL	22-03-2101 4030-10A	BU104
5322 265 40197	CONNECTOR	10.00 POL	F095 DOUBLE ROW	BU105
5322 121 40308	CAPACITOR	22.00 NF	10% 400V	C101
5322 122 32549	CAPACITOR	3.30 PF	+-0.25PF 500V NP0 2M	C102
5322 122 32269	CAPACITOR	68.00 PF	5% 50V NPO 0805	C103
5322 122 32453	CAPACITOR	10.00 NF	20% 50V X7R 0805	C104
5322 122 32453		10.00 NF	20% 50V X7R 0805	C105
5322 122 32453		10.00 NF	20% 50V X7R 0805	C106
5322 122 32453	CAPACITOR	10.00 NF	20% 50V X7R 0805	C107
5322 122 33062		270.00 PF	10% 500V 2M	C108
		10.00 NF	20% 50V X7R 0805	C109
5322 122 32453		10.00 NF	20% 50V X7R 0805	C110
5322 122 32453				C111
5322 122 34082		100.00 NF		
5322 122 32452		47.00 PF	5% 50V NPO 0805	C112
5322 124 10455		48.00 UF	20% 6.3V SOLID AL	C113
5322 122 32453	CAPACITOR	10.00 NF	20% 50V X7R 0805	C114
5322 122 32453	CAPACITOR	10.00 NF	20% 50V X7R 0805	C115
5322 122 32453		10.00 NF	20% 50V X7R 0805	C116
5322 124 10652		22.00 UF	6V 195D226X0006F2	C118
5322 122 34082		100.00 NF	20% 50V X7R 1808	C119
5322 122 32453		10.00 NF	20% 50V X7R 0805	C120
5322 122 32452		47.00 PF	5% 50V NPO 0805	C121
5322 122 34082		100.00 NF	20% 50V X7R 1808	C122
5322 124 10653		3.30 UF	6V 195D335X0006B2	C123
5322 122 34082		100.00 NF	20% 50V X7R 1808	C126
5322 124 41367		6800.00 UF	20% 16V ECEA1CU682	C127
5322 124 41366		2200.00 UF	20% 16V ECEA1CU222	C128
5322 124 10654		1.50 UF	15V 195D155X0015B2	C129
5322 124 10654		1.50 UF	15V 195D155X0015B2	C130
		3.30 UF	6V 195D335X0006B2	C131
5322 124 10653		3.30 UF	6V 195D335X0006B2	0132
5322 124 10653		10.00 NF	20% 50V X7R 0805	C133
5322 122 32453			20% 50V X7R 0805	C134
5322 122 32453		10.00 NF	20% 50V X7R 0805	C135
5322 122 32453		10.00 NF	20% 50V X7R 0805	C135
5322 122 32453		10.00 NF		
5322 122 32448		10.00 PF	5% 50V NPO 0805	C137
5322 122 34082		100.00 NF	20% 50V X7R 1808	C138
5322 122 32452		47.00 PF	5% 50V NPO 0805	C139
5322 122 32453		10.00 NF	20% 50V X7R 0805	C140
5322 122 32453		10.00 NF	20% 50V X7R 0805	C171
5322 130 34337	DIODE	0.10 A	BAV99 SOT23	GR101
5322 130 34337	DIODE	0.10 A	BAV99 SOT23	GR103
5322 130 34337	DIODE	0.10 A	BAV99 SOT23	GR109
5322 130 30691		0.25 A	BAW56 70V SDT23	GR111
5322 130 30691		0.25 A	BAW56 70V 50T23	GR112
4822 130 32003		4.00 A	KBL02 200V	GR114
5322 209 71556		0.00	SP9680 DIL-8	IC101
5322 209 86203		0.00	MC10138P	10102
5322 209 70313		0.00	MC10125P	IC103
5322 209 71559		0.00	DQ0501	IC104
5322 255 40421		24.00 POL	DIL	IC104
5322 209 51236		0.00	PM6665-69 D2764	IC105
5322 209 51241		0.00	PM6665-69 D2764	IC105
5322 255 40234		28.00 POL	DIL	IC105
5322 209 84454	_	5.00 V	MC7805CT 1A TO-220	IC106
JOEC EV7 04434	. 10	3.00 ,		

SERVICECODE	DESCRIPTION	ARTICLE	SPECIFICATION	POS-NR
5322 130 44843	IC	-5.00 V	MC7905CT 1A TD-220	IC107
5322 209 71555	IC	0.00	PC74HC373T S0-20	IC110
5322 265 60251	CONNECTOR	4.00 POL	F095 DOUBLE ROW	JP101
5322 263 50101	CONNECTOR	2.00 PDL	F095 JUMPER GREY	JP101
5322 265 44074	CONNECTOR	2.00 POL	F095 SINGLE ROW	JP102
5322 158 10243	CHOKE	100.00 UH	10% Q=50 1641-104	L101
5322 111 90094	RESISTOR	10.00 MDHM		R101
5322 111 90094	RESISTOR	10.00 MDHM	10% 0.25W RC-01 1206	R102
4822 111 90169		560.00 KDHM	5% 0.25W RC-01 1206	R103
4822 111 90169	RESISTOR	560.00 KDHM	5% 0.25W RC-01 1206	R104
4822 111 90573	RESISTOR	56.00 KOHM	5% 0.25W RC-01 1206	R105
4822 111 90214	RESISTOR	100.00 KDHM	· 5% 0.25W RC-01 1206	R106
4822 111 90203	RESISTOR	68.00 DHM	5% 0.25W RC-01 1206	R107
4822 111 90203	RESISTOR	68.00 DHM	5% 0.25W RC-01 1206	R108
4822 111 90214	RESISTOR RESISTOR	100.00 KOHM	5% 0.25W RC-01 1206	R109
4822 111 90249 4822 111 90249	RESISTOR	10.00 KDHM 10.00 KDHM	5% 0.25W RC-01 1206	R110
5322 111 90106	RESISTOR	330.00 DHM	5% 0.25W RC-01 1206	R111
5322 111 90106	RESISTOR		5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R112 R113
4822 111 90203	RESISTOR			R113
4822 111 90203	RESISTOR	68.00 OHM		R115
5322 101 20942	POTENTIOMETER		PM6669	R115
4822 111 90344	RESISTOR		5% 0.25W RC-01 1206	R117
5322 100 11143	POTENTIOMETER	15.00 OHM 10.00 KOHM 220.00 KOHM	25% 0.1W 3304X-1-103	R118
4822 111 90197	RESISTOR	220.00 KUHM	5% 0.25W RC-01 1206	R119
5322 111 90092	RESISTOR	1.00 KDHM	5% 0.25W RC-01 1206	R120
4822 111 90357	RESISTOR	33.00 DHM	5% 0.25W RC-01 1206	R121
5322 111 90118	RESISTOR	8.20 KDHM	5% 0.25W RC-01 1206	R122
4822 111 90217	RESISTOR	47.00 DHM	5% 0.25W RC-01 1206	R123
5322 111 90109	RESISTOR	470.00 DHM	5% 0.25W RC-01 1206	R124
5322 111 90118	RESISTOR	8.20 KOHM	5% 0.25W RC-01 1206	R125
5322 111 90092	RESISTOR	1.00 KDHM	5% 0.25W RC-01 1206	R126
5322 111 90118	RESISTOR	8.20 KOHM	5% 0.25W RC-01 1206	R127
5322 111 90118	RESISTOR	8.20 KDHM	5% 0.25W RC-01 1206	R128
4822 111 90569	RESISTOR	2.70 KDHM 330.00 DHM	5% 0.25W RC-01 1206	R129
5322 111 90106	RESISTOR		5% 0.25W RC-01 1206	R130
5322 111 90106		330.00 DHM	5% 0.25W RC-01 1206	. R131
5322 111 90092	RESISTOR	1.00 KDHM	5% 0.25W RC-01 1206	R132
5322 111 90092	RESISTOR	1.00 KDHM	5% 0.25W RC-01 1206	R133
5322 111 90109	RESISTOR	470.00 DHM	5% 0.25W RC-01 1206	R134
5322 111 90109	RESISTOR	470.00 DHM	5% 0.25W RC-01 1206	R135
4822 111 90178	RESISTOR	220.00 DHM	5% 0.25W RC-01 1206	R144
4822 111 90178	RESISTOR RESISTOR	220.00 DHM	5% 0.25W RC-01 1206	R145
4822 111 90162 4822 111 90151	RESISTOR	680.00 DHM 1.50 KDHM	5% 0.25W RC-01 1206	R146
4822 111 90151	RESISTOR		5% 0.25W RC-01 1206	R147
4822 111 90249	RESISTOR	1.50 KDHM 10.00 KDHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R148
4822 111 90161	RESISTOR	470.00 KDHM	5% 0.25W RC-01 1206 5% 0.25W RC-01 1206	R149 R151
4822 111 90161	RESISTOR	470.00 KDHM	5% 0.25W RC-01 1206	R151
4822 111 90161	RESISTOR	470.00 KBHM	5% 0.25W RC-01 1206	R153
5322 111 90111	RESISTOR	4.70 KOHM	5% 0.25W RC-01 1206	R153
5322 276 11447	PUSH SWITCH	1.00 CELL	PM6673-77	SK102
5322 414 20031	PUSH BUTTON	0.00 VKS	6.5X6.5 L-BR 30304	SK102
4822 276 11076	KEY SWITCH	1.00 POL	DW-5112 TYPE VKS	SK103
5322 277 21124	VOLTAGE SWITCH	0.00	V202-12-MA-08-QA	5K105
5322 276 12192	PUSH SWITCH	1.00 CELL	PM6665-69	SK104
5322 146 21229	TRANSFORMER	0.00	PM6665-69	TR101
5322 130 44343	TRANSISTOR	0.00	BFR30 .01A 25V S0T23	
5322 130 40781	TRANSISTOR	0.00	BFS17 .05A 15V S0T23	TS102

	PM6665,-69	DATE: 87-05-12		
SERVICECODE	DESCRIPTION	ARTICLE S	PECIFICATION	POS-NA
X-TAL OSCILLATO	R, U4			
5322 267 54195	CONNECTOR	10.00 PDL	22-15-2106 4455-AC	BU404
4822 122 31414	CAPACITOR	10.00 NF	-20/+50% 100V 2M	E401
4822 122 31237	CAPACITOR	82.00 PF	2% 100V NPO 2M	C402
5322 125 54029	CAPACITOR	18.00 PF	2-18PF 300V	
				C403
4822 122 31063	CAPACITOR	22.00 PF	2% 100V NPO 2M	C404
4822 122 31237	CAPACITOR	82.00 PF	2% 100V NPO 2M	C405
5322 209 11455	IC	0.00	MM74HCU04N	IC401
5322 242 74163	CRYSTAL	10.00 MHZ	PM9677 HC-49U	KT401
5322 116 55535	RESISTOR	1.00 MDHM	1% 0.4W MR25	R401
5322 116 55274	RESISTOR	215.00 DHM	1% 0.4W MR25	R402
4822 116 53108	RESISTOR	1.00 KDHM	1% 0.5W MRS25	R403
4822 116 53022	RESISTOR	10.00 KDHM	1% 0.5W MRS25	R404

/.3. oscillator (MTCXO)

Repair of this oscillator cannot be carried out by the local service organization so no spare parts are available. The complete oscillator unit must be sent to the factory for repair.

Contact your local Philips organization.

PM9604 GPIB DATE: 87-05-11

SERVICECODE	DESCRIPTION	ARTI	CLE SPECI	FICATION	POS-NR
5322 267 60148 5322 321 22315	CONNECTOR CABLE ASSY	24.00	POL	57LE-20240-7700D35G PM9604	BU101 BU102
5322 124 14075	CAPACITOR	1.00	UF	20% 40V (25V) SOL AL	C1
5322 121 42525	CAPACITOR	470.00	NF	10% 63V MMKO-5 PETP	C2
5322 121 42525	CAPACITOR	470.00	NF	10% 63V MMKO-5 PETP	C3
4822 122 31414	CAPACITOR	10.00	NF	-20/+50% 100V 2M	C4
4822 122 31414	CAPACITOR	10.00	NF	-20/+50% 100V 2M	C5
4822 122 31414	CAPACITOR	10.00	NF	-20/+50% 100V 2M	C6
4822 130 30621	DIODE	0.20	A	1N4148/75 DO-35	GR1
5322 255 40233	IC-SOCKET	40.00	POL	DIL	IC1
5322 209 81264	IC			P8291A TALK/LISTEN	IC1
5322 209 51242	IC			PM9604 D2764	IC2
5322 255 40234	IC-SOCKET	28.00	POL	DIL	IC2
5322 209 71577	IC			MABB400B DIL-28	ICS
5322 209 81842	IC			SN75161AN	IC3
5322 209 81807	IC			SN75160AN	IC4
4822 209 10317	IC			HEF40097BP	IC5
5322 209 84454	IC	5.00	V	MC7805CT 1A TD-220	IC6
5322 111 94031	RES. NETWORK	47.00	KOHM	10%×6 1/8W	R1
5322 116 53232	RESISTOR	464.00	OHM	1% 0.5W MRS25	R8
5322 277 21125	DIP SWITCH	6.00	POL	206-6 RAST	SW1
4822 130 40824	TRANSISTOR			BD136 1.5A 45V TO-126	TS1

Sa22 267 60197	SERVICECODE	DESCRIPTION	ARTICLE SPE	ECIFICATION	POS-NR
Saze 267 60 1979 CONNECTOR CONSISTED CONSIST	5000 201 22313	CARLE ASSY	0.00	PM9608 PRESCAL	
SABER 197 501.0FR1NS PIN 2.80 MM E242.5 SN BU303 SABER 197 501.0NECTOR 10.00 PDL 2.85 MM E242.5 SN BU303 SABER 197 501.0NECTOR 10.00 PDL 2.85 MM E242.5 SN BU303 SABER 197 SABER					BU301
Saze 27 54 95 CONNECTOR 10.00 POL 22-15-2104 4455-AC BU303 Saze 28 32532 28 32532 28 32532 28 32532 28 34123 CAPACITOR 1.00 NF 20% SOV X7R 0805 C302 28 32433 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 5322 128 34123 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 5322 128 34123 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 5322 128 34123 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 5322 128 34123 CAPACITOR 1.00 NF 20% SOV X7R 0805 C305 C302 C302 C302 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 CAPACITOR 1.00 NF 20% SOV X7R 0805 C303 CAPACITOR 1.00 NF 20% SOV X7R 0805 C304 CAPACITOR 1.00 NF 20% SOV X7R 0805 C314 CAPACITOR 1.00 NF 20% SOV X7R 0805 C315 CAPACITOR 1.00 NF 20% SOV X7R 0805 C325 CAPACITOR 1.00 NF 20% S					
Saze 290 30.191 SOLDERING PIN 2.80 MM E242.5 SN BU304 Soldering PIN 2.80 MM E242.5 SN Solv NPO 0805 C301 Soldering PIN 2.80 MM E242.5 SN C301 Soldering PIN 2.80 MM E242.5 SN C301 Soldering PIN 2.80 MM E242.5 SN C302					
Sape 122 32432					
Saze 122 34123					
Sape 122 34.123 CAPACITOR 1.00 NF 20% 500 X7R 0805 C304					
Saze 122 34123 CAPACITOR 1.00 NF 20% 500 X7R 0805 C306 C305 C302 122 34123 CAPACITOR 1.00 NF 20% 500 X7R 0805 C306 C302 C302					
Saze 122 34 123 CAPACITOR					
Saze 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C306 C307 C302 C322 C323					
Saze 12					
Saze 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C310					
Saze 122 34-123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C311					
Saze 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C312 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C312 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C313 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C314 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C314 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C315 5322 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C316 5322 122 34243 CAPACITOR 1.00 NF 20% 50V X7R 0805 C318 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C318 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C326 5322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 5322 123 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 31544 D10DE 0.03 A BAT17 S0T23 GR305 S322 130 S3437 D10DE 0.00 BAT19 S0T23 GR305 S322 130 S3437 D10DE 0.00 BAT19 S0T23 GR305 S322 130 S3437 D10DE					
Sa22 122 32448 CAPACITOR 1.00 NF 20% 50V X7R 0805 C312					
Sa22 122 32448 CAPACITOR 10.00 PF 5% 50V NPO 0805 C314					
Saze 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C316					
Saze 122 33063 CAPACITOR 2.20 PF 5%, 50V NPO 0805 C316					
Saze 122 34123 CAPACITOR 1.00 NF 20% 50V X7R 0805 C317					
Sa2e 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C318					
Saze 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C320 C320 232 232 2453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C320 C320					
Sa2e 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C320 C322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C321 C322 122 32454 CAPACITOR 10.00 NF 20% 50V X7R 0805 C322 C323 C322 122 32446 CAPACITOR 10.00 NF 20% 50V X7R 2220 C323 C322 122 32452 CAPACITOR 10.00 NF 20% 50V X7R 0805 C324 C322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 C322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 C322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 C322 122 32453 CAPACITOR 10.00 NF 20% 50V X7R 0805 C325 C326 C32					
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4822 111 90178 RESISTUR 220.00 UHM 5% 0.25W RC-01 1206 R316					
	4822 111 90178	KES1STUR	220.00 UHM	3% 0.53M MC-01 1506	, K210

PM9608 PRESCALER DATE: 87-05-11

SERVICECODE	DESCRIPTION	ART	ICLE S	SPECIFICATION	POS-NR
4822 111 90217	RESISTOR	47.00	DHM	5% 0.25W RC-01 1206	R319
5322 111 90095	RESISTOR	10.00		5% 0.25W RC-01 1206	R320
4822 111 90217	RESISTOR	47.00		5% 0.25W RC-01 1206	R321
4822 111 90217	RESISTOR	47.00	DHM	5% 0.25W RC-01 1206	R322
5322 111 90091	RESISTOR	100.00	OHM	5% 0.25W RC-01 1206	R324
4822 111 90569	RESISTOR	2.70	KOHM	5% 0.25W RC-01 1206	R325
4822 111 90543	RESISTOR	47.00	KOHM	5% 0.25W RC-01 1206	R326
4822 111 90248	RESISTOR	2.20	KOHM	5% 0.25W RC-01 1206	R327
4822 111 90154	RESISTOR	270.00	OHM	5% 0.25W RC-01 1206	R328
5322 111 90106	RESISTOR	330.00	OHM	5% 0.25W RC-01 1206	R329
5322 101 14299	POTENTIOMETER	1.00	KOHM	10% 72X	R330
4822 111 90543	RESISTOR	47.00	KOHM	5% 0.25W RC-01 1206	R331
5322 111 90111	RESISTOR	4.70	KOHM	5% 0.25W RC-01 1206	R332
4822 111 90157	RESISTOR	3.30	KOHM	5% 0.25W RC-01 1206	R333
4822 111 90214	RESISTOR	100.00	KOHM	5% 0.25W RC-01 1206	R335
5322 111 90111	RESISTOR	4.70	KOHM	5% 0.25W RC-01 1206	R336
4822 111 90157	RESISTOR	3.30	KOHM	5% 0.25W RC-01 1206	R337
5322 111 90111	RESISTOR	4.70	KOHM		R338
4822 111 90157	RESISTOR	3.30	KOHM		R339
5322 111 90267	RESISTOR	33.00	KOHM	5% 0.25W RC-01 1206	R340
5322 111 90111	RESISTOR	4.70	KOHM		R341
5322 111 90092	RESISTOR	1.00	KOHM		R342
5322 111 90113	RESISTOR	560.00	OHM		R343
5322 111 90091	RESISTOR	100.00	OHM		R344
5322 111 90376	RESISTOR	4.70	OHM	10% 0.25W RC-01 1206	
5322 111 90109	RESISTOR	470.00			R347
4822 111 90339	RESISTOR	120.00	DHM		R348
4822 111 90569	RESISTOR	2.70			R349
4822 111 90569	RESISTOR	2.70			R350
5322 111 90267	RESISTOR	33.00			R351
5322 111 90111	RESISTOR	4.70			R352
4822 111 90249	RESISTOR	10.00			R353
5322 111 90376	RESISTOR	4.70	OHM	10% 0.25W RC-01 1208	
5322 130 42567	TRANSISTOR	0.00			TS301
5322 130 42567	TRANSISTOR	0.00			TS302
4822 130 60511	TRANSISTOR	0.00		BC847B .1A45V SOT23	TS303
4822 130 60511	TRANSISTOR	0.00		BC847B .1A45V SOT23	TS304
5322 130 60508	TRANSISTOR	0.00		BC857B .1A45V SOT23	TS305
5322 130 60508	TRANSISTOR	0.00		BC857B .1A45V SOT23	TS306